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0008462569 *Drawing available*
WPI Acc no: 1997-402201/199737
Related WPI Acc No: 1996-116963
XRAM Acc no: C1997-129682
New sulphonylaryl-imidazole derivatives which are cyclooxygenase-2 selective inhibitors - headache, without causing side effects e.g. ulcers
Patent Assignee: SEARLE & CO G D (SEAR); COLLINS P W (COLL-I); HUFF R M (HUFF-I I); WEIER R M (WEIE-I); XU X (XUXX-I); YU Y (YUYY-I)
Inventor: COLLINS P; COLLINS P W; HUFF R; HUFF R M; KHANNA I K; KOSZYK F; KOSZ WEIR R ; XU X; YU U; YU Y

Patent Family (17 patents, 75 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
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Priority Applications (no., kind, date): US 2005183016 A 20050715; US 2003653399 A 2003(1999101493 A 19990602; WO 1997US300 A 19970124; WO 1995US9506 A 19950727; US 1 19960126

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								DE 6
								US 6

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Alerting Abstract WO A1

Sulphonylaryl–imidazole derivatives of formula (I) and their salts are new: in which R1, R2 = aminosulphonyl, alkylsulphonyl or haloalkylsulphonyl (AMS, ALS, or HALS), halo, cyano, hyd alkylthio, alkoxyalkyl, alkoxycarbonyl, amino, alkylamino, arylamino, or nitro); provided that a alkyl, haloalkyl, or hydroxyalkyl, 1–10C alkoxy or alkylthio, aralkyl, heterocycloalkyl, acyl, cy cycloalkylsulphonyl, haloalkylsulphonyl, arylsulphonyl, halogen, alkoxyalkyl, alkylcarbonyl, ary aminoalkyl, alkylaminoalkyl, N–arylaminoalkyl, N–alkyl–N–arylaminoalkyl, carboxyalkyl, alkoxy alkylaminocarbonyl, alkylaminocarbonylalkyl, heteroarylalkoxyalkyl, heteroaryloxyalkyl, heter aryloxyalkyl arylthio, aryloxy, aralkylthioalkyl, aralkoxyalkyl, aryl, or heterocyclo; R4 = H, F, c claimed are sulphonylaryl–imidazole derivatives of formula (V): R4' = H, alkyl, or halo; and R USE – (I) are cyclooxygenase (COX) inhibitors, with selectivity for COX–2 rather than COX antipyretics in treatment of fever; and are non–steroidal antiinflammatory drugs (NSAIDs), various forms of arthritis, lupus erythematosus, asthma, bronchitis, menstrual cramps, tend Crohn's disease, gastritis, irritable bowel, ulcerative colitis, prevention and treatment of car aplastic anaemia, Hodgkin's disease, scleroderma, rheumatic fever, type I diabetes, neurom sarcoidosis, nephrotic or Behcet's syndrome, polymyositis, gingivitis, nephritis, hypersensiti conjunctivitis, eye tissue injury, pulmonary inflammation from viral infections or cystic fibro distress or endotoxic shock syndromes, atherosclerosis, or CNS damage from stroke, ischa ADVANTAGE – As selective COX–2 inhibitors, (I) do not cause the severe side effects, inc corticosteroids.

Title Terms /Index Terms/Additional Words: NEW; SULPHONYL; ARYL; IMIDAZOLE; DERI
RELATED; DISORDER; ARTHRITIS; PAIN; HEADACHE; CAUSE; SIDE; EFFECT; ULCER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
C07D-233/32; C07D-233/54			Main		"Version 7"
A61K-031/4164; A61K-031/4178; A61K-031/422; A61K-031/4439; A61K-031/4725; A61P-029/00; C07D-233/90; C07D-401/04; C07D-401/12; C07D-403/04; C07D-405/04; C07D-409/04; C07D-413/04; C07D-417/04			Secondary		"Version 7"
A61K-0031/415	A	I		R	20060101
A61K-0031/4178	A	I		R	20060101
A61K-0031/4439	A	I		R	20060101
A61K-0031/4709	A	I		R	20060101
A61K-0031/5377	A	I		R	20060101
A61P-0029/00	A	I		R	20060101
C07D-0233/32	A	I		R	20060101
C07D-0233/54	A	I		R	20060101
C07D-0233/90	A	I		R	20060101
C07D-0401/04	A	I		R	20060101
C07D-0401/12	A	I		R	20060101
C07D-0403/04	A	I		R	20060101
C07D-0405/04	A	I		R	20060101
C07D-0409/04	A	I		R	20060101
C07D-0413/02	A	I		R	20060101
C07D-0413/04	A	I		R	20060101
C07D-0417/04	A	I		R	20060101
C07D-0419/04	A	I		R	20060101
A61K-0031/415	C	I		R	20060101
A61K-0031/4164	C	I		R	20060101
A61K-0031/4427	C	I		R	20060101
A61K-0031/4709	C	I		R	20060101
A61K-0031/5375	C	I		R	20060101
A61P-0029/00	C	I		R	20060101
C07D-0233/00	C	I		R	20060101
C07D-0401/00	C	I		R	20060101
C07D-0403/00	C	I		R	20060101
C07D-0405/00	C	I		R	20060101

C07D-0409/00	C	I	R	20060101
C07D-0413/00	C	I	R	20060101
C07D-0417/00	C	I	R	20060101
C07D-0419/00	C	I	R	20060101

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File Segment: CPI
DWPI Class: B02; B03
Manual Codes (CPI/A-N): B07-D09; B14-A02; B14-C01; B14-C03; B14-C04; B14-C09; B14-E01; B14-F01E; B14-F02D; B14-F03; B14-G02A; B14-H01; B14-J01 ; B14-J01A3; B14-K01; B14-K01A; B14-K01D; B14-N03; B14-N16; B14-N17A; B14-N17C; B14-S01; B14-S04

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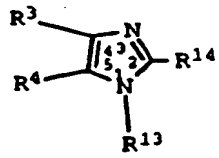
(54) Title: HETEROCYCLO-SUBSTITUTED IMIDAZOLES FOR THE TREATMENT OF INFLAMMATION

(57) Abstract

A class of imidazolyl compounds is described for use in treating inflammation. Compounds of particular interest are defined by formula (V), wherein R^3 is a radical selected from hydrido, alkyl, haloalkyl, aralkyl, heterocycloalkyl, heteroaralkyl, acyl, cyano, alkoxy, alkylthio, alkylthioalkyl, alkylsulfonyl, cycloalkylthio, cycloalkylthioalkyl, cycloalkylsulfonyl, cycloalkylsulfonylalkyl, haloalkylsulfonyl, arylsulfonyl, halo, hydroxyalkyl, alkoxyalkyl, alkylcarbonyl, arylcarbonyl, aralkylcarbonyl, heterocyclocarbonyl, cyanoalkyl, aminoalkyl, alkylaminoalkyl, N-arylaminoalkyl, N-alkyl-N-arylaminoalkyl, carboxyalkyl, alkoxycarbonylalkyl, alkoxycarbonyl, haloalkylcarbonyl, carboxyl, aminocarbonyl, alkylaminocarbonyl, alkylaminocarbonylalkyl, heteroarylalkoxyalkyl, heteroaryloxyalkyl, heteroarylthioalkyl, aralkoxy, aralkylthio, heteroaralkoxy, heteroaralkylthio, heteroarylalkylthioalkyl, heteroaryloxy, heteroarylthio, arylthioalkyl, aryloxyalkyl, arylthio, aryloxy, aralkylthioalkyl, aralkoxyalkyl, aryl and heteroaryl; wherein R^4 is a radical selected from hydrido, alkyl and halo; and wherein R^{13} and R^{14} are independently selected from aryl and heterocyclo, wherein R^{13} and R^{14} are optionally substituted at a substitutable position with one or more radicals independently selected from alkylsulfonyl, aminosulfonyl, halo, alkylthio, alkyl, cyano, carboxyl, alkoxycarbonyl, haloalkyl, hydroxyl, alkoxy, hydroxyalkyl, alkoxyalkyl, haloalkoxy, amino, alkylamino, arylamino and nitro; provided at least one of R^{13} and R^{14} is aryl substituted with alkylsulfonyl or aminosulfonyl; or a pharmaceutically-acceptable salt thereof.



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